

Matrox® Mura DVW

Seamless, scalable, synchronized video walls.

Matrox® Mura DVW is a high-performance, IP-based 4K distributed video wall appliance that lets you combine multiple units to easily create a fully synchronized video surface across a wide range of sizes and rectangular layouts. Mura DVW integrates advanced computing, networking, video and audio decoding, and graphics processing to deliver seamless AV experiences with maximum security. It supports high-density H.264 and H.265 IP video streams, low-latency Matrox IQ Mode streams, web content, and local image and video files, with audio support for IP, local video, and web sources. Integrated MuraConfig and MuraControl applications simplify deployment, configuration, and day-to-day operation from virtually any modern web browser. Mura DVW is also fully TAA compliant.

Key features and benefits.

Perfect video synchronization

Drive up to 64 4K synchronized displays, or 256 full HD when combined with Matrox QuadHead2Go, from a range of sources and eliminate tearing by synchronizing DVW appliances together using IP-based PTP framelocking. With Mura DVW's built-in Best Master Clock Algorithm (BMCA), facility-wide synchronization across Mura DVW appliances can be achieved when a PTP Grandmaster is present.

High performance video wall

Each Mura DVW appliance supports high-density IP stream decoding—handling up to one 8K60, six 4K60, twelve 4K30, eighteen 1080p60, forty 1080p30 and seventy-two 720p30 H.264/H.265 4:2:0 streams simultaneously. Output is supported across up to four 4K60 HDMI displays per device, ensuring smooth, ultra-high-resolution playback.

High quality desktop content

Leverage the HEVC 4:4:4 codec to deliver full-color depth for maximum image quality and system compatibility. This advanced compression enables low-bitrate transmission of visually rich content over IP—ideal for applications demanding color accuracy, compression efficiency, and high performance. Mura DVW also supports widely used codecs like H.264 and H.265 in 4:2:0 format, ensuring seamless integration with most modern COTS equipment. For applications requiring even lower latency, Mura DVW also supports Matrox IQ Mode streams from Maevox MGX E1 and E2 encoders, providing an optimized H.265 4:4:4 mode for responsive, high-quality desktop content.

Integrated audio support

Bring sound to the video wall along with visual content. Mura DVW decodes audio from IP, local video, and web sources, with flexible source selection, volume, and mute control from MuraControl. Audio selections can be associated with layouts, giving operators integrated control of both picture and sound.

Control with confidence

MuraControl enhances day-to-day operations with Live Preview capabilities, allowing operators to remotely preview active IP video and web sources directly from the control interface.

Simple and serverless

Lower deployment costs by reducing additional hardware, dedicated server, and cabling requirements. By integrating video wall management applications directly into each appliance, Mura DVW simplifies installation and operation without the complexity and cost of a separate server. MuraConfig and MuraControl provide a complete browser-based environment to configure, deploy, monitor, and control the video wall, while streamlined IP source creation using stream URLs, SDP files, and CSV import helps accelerate setup on larger installations.

Robust, built-in security

All communication is encrypted and uses secure protocols like HTTPS, authenticated RTSP, and SRT. User authentication is required for all access and control, while hardware-level encryption ensures no data can be extracted from the device. Powered by a custom-built, locked-down Matrox OS, the system minimizes attack surfaces by tightly controlling software components. Trusted CA certificate support enables secure internal and self-signed HTTPS content to be displayed as web sources. Regular vulnerability scans and updates ensure resilience against evolving threats.

Local image and video support

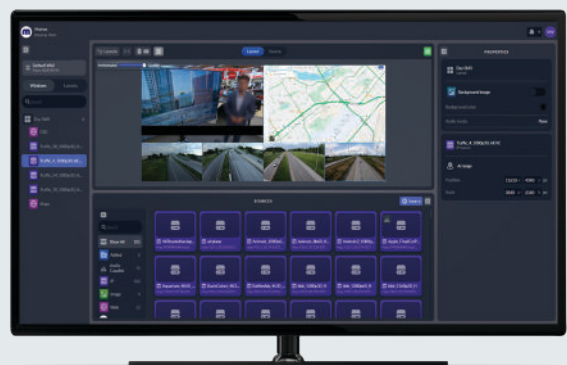
Display images and play video files directly from Mura DVW without requiring an external media server or encoder. Local media simplifies applications such as branding, signage, welcome screens, informational content, and presentations while reducing external hardware requirements.

Integrated Web Source Browser

Display live web content directly on the video wall—including dashboards, maps, Office 365 applications, and YouTube streams—without requiring an external server. The enhanced integrated web source browser simplifies deployment while expanding the range of dynamic web-based content that can be securely displayed and managed. Operators can also seamlessly browse, control, and interact with web-based content on the video wall using keyboard and mouse functionality for a more responsive and intuitive user experience.



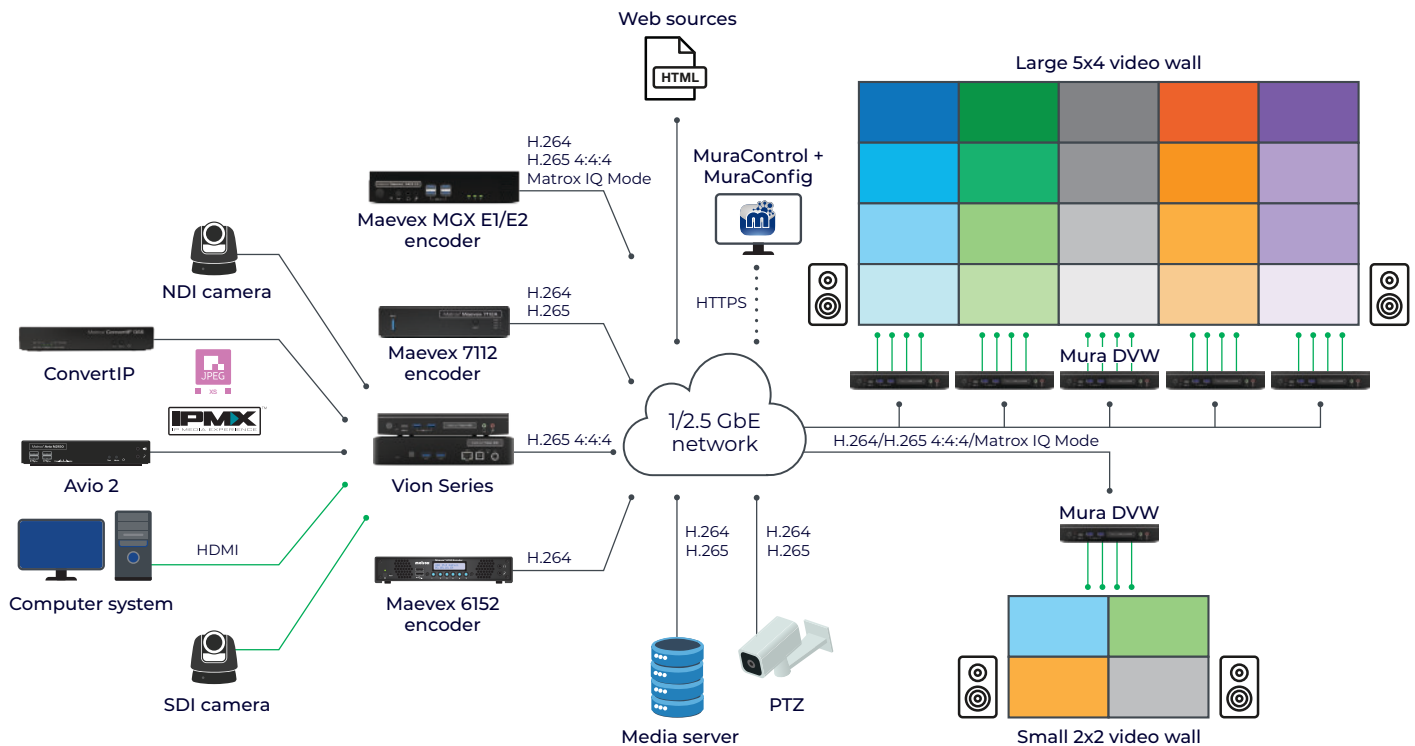
Matrox MuraConfig



Matrox MuraControl

Perfectly seamless, scalable video walls.

Display perfectly synchronized streams from a range of sources, including PTZ cameras, encoders, media servers, and web. Mura DVW video walls are flexible and scalable, enabling you to build fully distributed video walls of any size with performance that improves as you add more Mura DVW units to your setup.



Appliance overview



Matrox Mura DVW (front view)



Matrox Mura DVW (back view)

Matrox MuraConfig.

With the Matrox MuraConfig web-based installation and configuration tools, you can quickly install and configure your video wall on any device from any location. Use MuraConfig to:

- Discover and configure distributed wall devices
- Configure wall topology and display arrangements
- Manage synchronization, display settings, and global EDID profiles for consistent display behavior
- Monitor system health and device status
- Centralize firmware and system management
- Access multilingual interfaces with support for English, French, German, Italian, and Spanish

Matrox MuraControl.

Matrox MuraControl provides an intuitive, browser-based interface that makes it easy to create, manage, and operate video wall layouts. Use MuraControl to:

- Create, copy, manage, deploy, and switch video wall layouts
- Compose and manipulate multiple-source windows directly on the canvas
- Manage audio from IP, local video, and web sources
- Add and manage local image and video sources
- Quickly create IP sources using stream URLs, SDP files, or CSV import
- Preview IP video, web, and image sources directly in the layout
- Interact with web-based content remotely using keyboard and mouse

Technical specifications

Product	Mura DVW
Part number	• DVW-Q4KY-NA (Canada/US power cord) • DVW-Q4KY-EU (European Union power cord) • DVW-Q4KY-UA (UK and Au/Nz power cord)
Cooling	• Dual ball bearing fan
Connectors	• 4x HDMI (Type A) outputs with retention screw • 2.5 and 1GbE1 RJ45 ethernet • Microphone input: 3.5mm port • Audio output: 3.5mm port
Maximum output resolutions	• Max. 4096x2160@60Hz
Form factor	• Standalone appliance, • 1U, ½ rack (horizontal)
Network interface	
Standard	• Ethernet 10/100/1000/2.5G base-T, auto-detect, half/full-duplex
Connector	• RJ45
IP version	• IPv4/IPv6
Distributed method	• Unicast, multicast and multiple unicast
IP addressing	• DHCP (default) and Static IP
Streaming & control protocols	
Streaming protocols	• RTSP, SRT, MPEG2-TS, Matrox IQ Mode
Command & control protocols	• Telnet and HTTPS
Color space	
Pixel formats	• RGB: 8:8:8, 10:10:10¹ (24/32 bits per pixel) • YUV: 4:4:4, 4:2:0 (8/10¹ bits per component), color space conversion support
Video & audio processing	
Video compositing	• Multi-channel video composite/key/blend/crop/mirror/flip
Audio	• AAC-LC Stereo and Mono, 32 to 96 KHz, 96 to 320 kbps, 16-bit
Video decoding	
Codec engine	• H.264/MPEG-4 Part 10 (AVC), up to level 5.2, 4:2:0 8-bit • H.265 (HEVC), up to level 6.2, 4:2:0 and 4:4:4 8-bit
H.264 and H.265 decode	• For both H.264 and H.265, 4:2:0 8-bit, displayed across four 4K60 monitors: 1x 8K60, 6x 4K60, 12x 4K30, 18x 1080p60, 40x 1080p30, 34x 720p60, 72x 720p30
Rate control	• Constant bitrate (CBR), variable bitrate (VBR), VBR with constraints, configurable GOP (group of pictures) structure
Environmental & power conditions	
Operating conditions	• Temperature: 0 to 40³ degrees Celsius • Humidity: 10% to 90% non-condensing
Storage conditions	• Temperature: -20 to 70 degrees Celsius • Humidity: 20% to 80% non-condensing
Typical power consumption	• 45W (12-19V)
Power supply	• 19V, 90 Watt PSU with locking mechanism
General specifications	
Dimensions	• L: 19cm (7.48in) x W: 14.8cm (5.83in) x H: 3cm (1.18in)
Rackmount	• VESA mount bracket included, rackmount compatible
Regulatory compliance	• Class A: FCC, CE, RCM, ICES-003, KC, UKCA
Environment compliance	• RoHS, China RoHS, REACH, WEEE
Warranty	• 2 years²
Accessories (sold separately)	
RMK-19TRNXDW-A	• Rack-mount shelf kit with pre-attached airflow guide, designed to fit up to two Matrox Vion NX and/or Mura DVW units in a 1RU rack space.

1. Coming soon.

2. Extended warranty available.

3. Units mounted side-by-side in a rack require proper ventilation and a maximum ambient temperature of 30°C for optimal performance. We recommend using the "RMK-19TRNXDW-A" for rack installation.



Contact Matrox Video

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